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DUAL HEN HOUSE RADAR SITES--ANGARSK,

SARY-SHAGAN, AND OLENEGORSK, USSR

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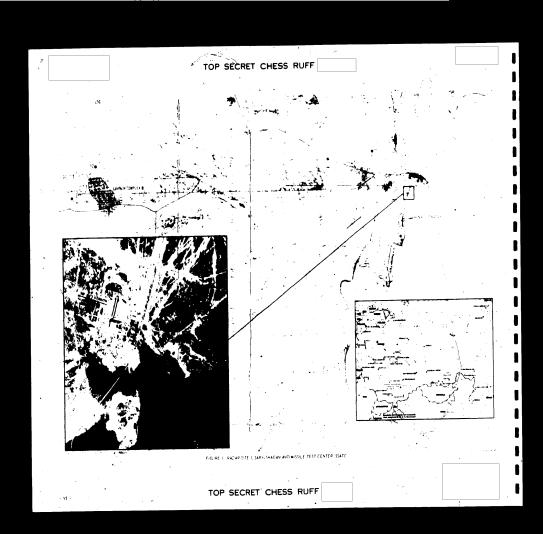
	TOP SECRET CHESS RUFF
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TOP SECRET CHESS RUFF (45.598.—73.391) (Figurd 1). The activity at Angarsk could not at that early doe be confirmed as electronics, flough there were some strong suspicions regarding the to the left side of this antenna structure was a control INTRODUCTION building, 300 feet long. An addition to the control billding, 100 by 75 feet and approximately 55 feet high, was constructed between the The Angarsk Dual HEN HOUSE Radar Site (52-53N unusually long excavations for probable structure founda-tions. In April 1960 the prototype HEN HOUSE at Rudar 103-15E₃, consisting of Dual HEN HOUSE-type antennas summer of 1962 and spring of 1963. This facility was first with adjacent support areas, was, I of Vknown installations with adjacent support areas, sale, to student in the Switter Linon as of Oktober 1984. The other 2 are located at Sary-Shagan Antimussile Lest Gener (SSATC), Ste 13 (46–46X, 74–3E), and at Olenogorsk (68–68X, 33–541), in the Murmansk area. photographed by TALLS I coverage of Sarv-Shagan Subsequent KFFH041 phrography has receiled a additional developments—september 1991 phrography revealed construction work on a new triangular shaped though this report is concerned primarily with Angarsk installation adjacent to the HEN HOLSE control building Additional missions in the following months revealed that and Sary-shagan Site 13, certain information on the proto-type HLS HO(S) and HLN ROOST installations at Sary-shagan Radar Site's No 1 and 2 will be included. A report. angles originally shown in PIC/JR-1010/61. 2 Attached on the Olenegorsk Dual HEN HOUSE Radar Site is contained. in NPIC R-855/64, 1. The detailed descriptions of the Angarsk and Sary-Shagan facilities in this report are based primarily on an i ... analysis of KH-7 photography accomplished respectively. Information on construction progress since the KH-7 missions were accomplished is based in each case on 2 subsequent missions employing the KH-4 system. In the case of Angarsk, additional coverage was secured in August and September 1964, while Sary-Shagan Site $13\frac{3}{7}$ was photographed twice in October 1964. · To facilitate discussions of specific site components, the Dual HEN HOUSE facilities at each site are identified alphabetically in the sequence of their appearance. Individual HEN HOUSE antenna structures are numbered APPROXIMATELY 4) PANELS IN THE SCREEN I and 2, with the former being the more northerly antenna. Where support facilities occupy more than a single area, i the areas are numbered sequentially. HISTORY OF THE HEN HOUSE INSTALLATIONS RADAR SITE NO 1, SARY-SHAGAN ANTIMISSILE TEST CENTER Prior to the discovery of the Angarsk activity in January 1964, the only known HEN HOUSE amenna it FIGURE 2. ELEVATIONS AT SSATC RADAR SITE I the Soviet Union was located at Radar Site 1, SSAIC TOP SECRET CHESS RUFF

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	TOP SECRET CHESS	RUFF		,
he new installation consisted of a 75- by 45-foot possible				
quipment building, 15 feet high, and a smaller suspect		•	•	
feed house" at the apex of a flat, suspect ground plane	l			
Figure 3).				
In plan view, the suspect ground plane appears triangu-	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	- ·		
ar with stepped or notched-sides. Its surface is very light	\perp			
in tone and is raised possibly 5 to 10 feet above the ground	1 / \			•
A rectangular 245-foot-wide and 110-foot-high suspect re-	11-			
flecting surface is erected at the easternside of the suspect			_	
ground plane, approximately 225 feet from the possible				***
equipment building. The suspect reflecting surface faces				
on the same azimuth as the adjacent HEN HOUSE antenna	 	THE THE PARTY IN		
face. It is suspected that a perpendicular to the western				
facing surface has a small elevation angle above horizontal,				
however, the angle is too small to measure photogrammetri-		A STATE OF THE STA	3.72	
cally. It is further suspected that this new addition is an		A CAR		
over-the-horizon-type radar device, possibly being tested	/	1.33		
against missiles launched from Chelkar, Makat, or Kapustin			11 (A. K)	
Yar Missile Test Range to the Sary-Shagan impact area. 3/		ATE ATE	EAHANTÉ THE BLACK PANELS	
No changes have been noted in this unique facility since		P 1		
April 1963,		<i>ا</i> , ا		
Probable modification of the HEN HOUSE antenna face,		~·[/		
the second development, was first noted	1	7		
when a 190-foot section of the antenna face		/		
appeared black. The black section consisted of 6 regularly	1			
spaced panels whose dimensions suggested the replacement	1			
of previously installed light-toned panels with larger black	1 7			
pinels (Figure 3). per-	1		1	
mitted confirmation of the fact that the entire face was -	.1			and the same of th
black.	1			
nd sun angles of 30 degrees 14 minutes and	1		- W	
30 degrees 15 minutes placed the antenna face in shadow.	1	1,15	Para.	
Consequently, appearance of the face could not be deter-	4	والمعاملين		4
mined despite a favorable perspective	• •	15 14		
for the forward camera.		The second	THE FACE CONFIRMED AS BLACK	
Missions between June 1963 and February 1964 also failed		[L. 1.4.	THE PACE COMPLISHED AS DEACH	
to reveal the face of the HENHOUSE because of unfavorable		14.		Α,
perspective ray azimuths and relatively poor ground resolu-				1 No.
tion. revealed no change,				
the face remaining black. Though the June 1963 photog-				
raphy revealed separations between individual black panels,			•	
the more recent photography does not permit detection of	1			
sectionalized paneling, despite relatively excellent KH-4	<u> </u>	FIGURE 1 HEN HOUSE AT RA	ADAR SITE 1. SSATC.	- and in
photo quality.				

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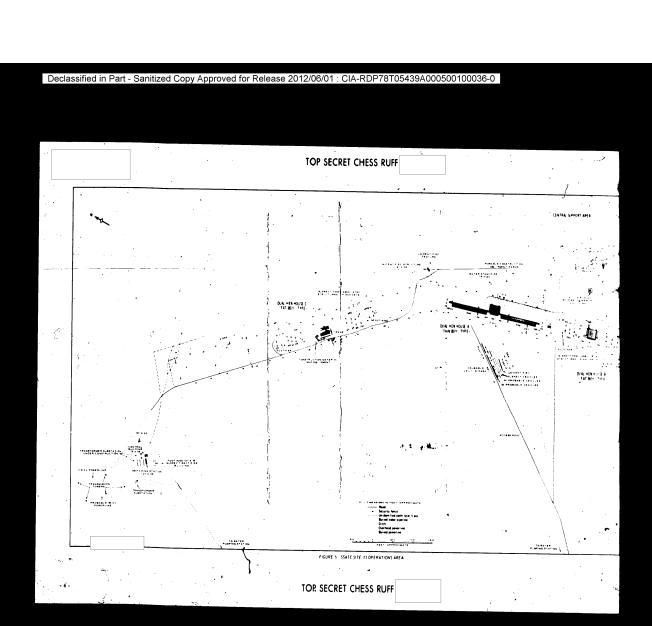
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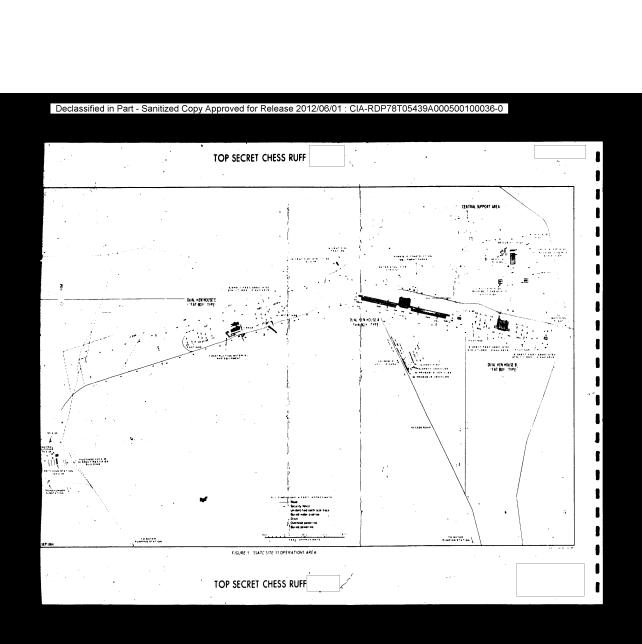
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• .	OUESS BUEE	
	TOP SECRET CHESS RUFF	
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7		internal "piano keyse" Softe Fagures 5 and 7.
ing for the second Dual HEN HOUSE, was being constructed	Dual HEN HOUSE. Extensive cloud coverage of this portion	Townshipston towers for a probable 35-ky electric
ing for the second Dual HIS 100.51, was stong approximately 1,000 feet west of the possibly AHM-assoct-	of the site prevented further analysis.	to the stroke electric powerline can be seen
ated building triad facility. The HEN HOUSI construction	A study of line drawings (Figures 5 and 6) reveals	the substations represent transformer substations recarred
activity at Sary-Shagan Site 13, which began sometime	that plan dimensions and overall height of both HI & HOUST	to 2 am porthuset of Dual HI NHOUSED (Figure
Continued introgradat and	structures at installation A are similar, however, fivey differ	to the man of cables carried be determined. Constitution
and spring of 1963, and through the winter and spring of .	as to the location of the ridgeline, the pitch of roof and face	the larter substation probably still continued
1963-64, 8 9 Construction of a third Dual HEN HOUSE	and the height of fertical sections from and reary. At Dual	the powerlines will the into the field
facility (Facility C) was initiated	HEN HOUSE B, the separation of linear footings and the	the Balkhash treatment between the Balkhash treatment
'	placement of internal suspect feed-associated structures to be referred to as plano keys i differs from that seen at	the Sary-Shagan Main Support Base. The prototole 1980
Photography revealed that a dark-		the common the court of Gulshaire
the face side (the	Locings for Buildt NHOUSE Conducte that if grobably	and the borto by the pipeline to the power substitution
and the street of the street of the suspected that this	and the conducted by HH NHOUSEB. Of particular signifi-	from the water pumping station southeast of Gulshar w.)
to me to up of dark panels similar to mose instance	the relative size and placement of suspect trans-	probably started sometime between Baried electric powerlines from the sub-
on the prototype HEN HOUSE antenna at Radar site No.1	matter and terminal buildings on each end of the various	station area northwest of the site can be traced down as fa
in 1963. Boresight from this face would be on an azimuth	HEN HOUSE structures and their relationship to the	station area normwest of the site control
	ļ.	
The rate of construction progress on all 3 Dual HLN		
HOUSE installations appears similar, with comparative		
progress relating to the different starting dates. Photography of 16 July 1964 revealed that the face of Hi N H08 St	***	
raphy of 16 July 1964 revealed that the face of A-1 and on Antenna A-2 would be on the same side as that of A-1 and on		891
investigate probability that the west side of		V 315
thus, and the also receiving black paneling. Thus,		And a comment of the second of
take from both antennas at Dual IR. NIOC St. 8 will		51A
be oriented westward. Excellent KH-4 photography		MEN HOUSE A ?
1 fate quality KH-7 coverage!	HER HOUSE A 1	
		4 - 4 4
A-1 and A-2, with both on the same side, facing west		
49	1 1 1 1	
. The photography accomplished during the months of	1 1	**********
September and October 1964 made possible more detailed analysis of this facility. The line drawing of the operations		1
t samuels numerous details regarding water		. /
to the temperature and other features. It is now		n /= /-
that an uncompleted double security	not for the	HORIZON CHE /,
and a stance the building triad with the 3 Dual HLS nex st.		ERGUND LEVEL
the security fence extends a sufficient	gao, an craft	
the porth to accommodate a fourth Dual HLN	1 1 1	* • • • • • • • • • • • • • • • • • • •
to store of this security provision, and a runted		
this open space, if is believed		Preside margins of their Aggin at A 2 th Aggin at A 2 th
that the Soviets have planned the construction of Full 111.5	7	Angle at A-2-10' Ortines 5 Seet Co Distance 5 Seet Co Microbial II. Brid
HOUSE D adjacent to Dual HEN HOUSE C.	1	Section 19
there was no evidence of excavation or other construc-	FIGURE 6 SIDE ELEVATION DIMENSIONS A	ND ANGLES OF BORESIGHT AT HEN HOUSE A. SSATC.
tion activity in the area probably set aside for the fourth	2.0000	
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	TOP SECRET CHESS RUFF	

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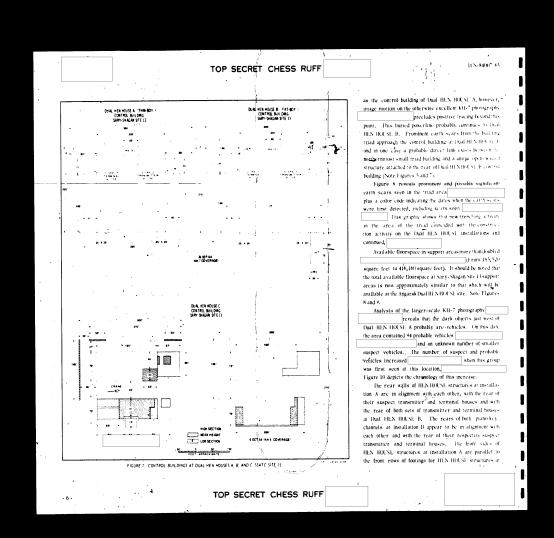
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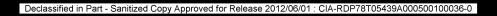
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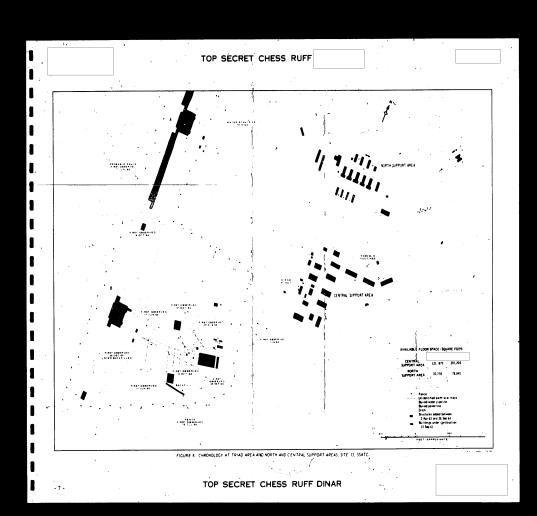
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TOP SECRET CHESS RUFF installation B. However, the front footings at installation 033-54-30L, approximately 11 nm east-northeast of Olenemuths, provided all critical ephemeral parameters are avail-B are approximately 30 feet to the rear of the front sides of HLN HOUSEs at Installation A. Rear footings of the radar structures at Dual HLN HOUSE B are 65 feet behind gorsk Airfield and 55 nm south-southeast of Murmansk Figure 11). This facility was negated on August 1962 photog raphy and first signs of construction activity were observed in the support area in June 1963. ANGARSK DUAL HEN HOUSE RADAR SITE the "piano key" channel at radar structure B-1 and 40 feet at radar structure B-2 (See Figure 5). Late in December 1963, an unusual unidensified facility As seen in Figure 11, the Dual HENHOUSE facility at Olenegorsk differs from the others in that the individual The square, dark tone surrounding the triad installation, was discovered under construction near the banks of the Belaya River, approximately 35 nm northwest of Angarsk visible on earliest and most subsequent photography of site 13 suggests the possibility that a security fence (possibly HEN BOOK E-type amends are not in alignment. The pyol-able horesight fazimuths (perpendiculars to the long side of each structure) are 2% and 326 degrees, and form an angle and 17 nm south-southeast of Cherenkhovo, at 524538. temporary) at one time protected the construction activity at the triad. 103-151. Correlation of this activity with Instrumentation. Site 13, 88ATC, was immediately established. of 30 degrees. Analysis of previous photography of the area revealed that I september 1962 coverage prohibby negated the facility. However, partial cloud cover of what is now support Area 2 OLENEGORSK ELECTRONICS SITE viously reported and reskilt from a refinement of ephemeral data for Mission 1007-11 June 1964; subsequent to the publication of NER, R-855-64. Accomplishment of better precludes positive negation on that date. Foor quality of earlier photographic coverage also prevents positive nega-Most recent of the Dual HLN HOUSE facilities to be discovered is located on the Kola Peninsula 68-08-00X quality photography may result in further adjustment of azition. Probably the first indication of construction actives was photographed. The photo quality was poor, however, initial clearing and suspect early construction activity in Support Area 2 could be detected. The first positive confirmation of construction activity residited from good-quality KLYHOLL coverage This photography revedled that construction of Doal HLN HOUSE installation A had progressed to probable early stages of superstructure erection by the control building. PROBABLE RUCTION SUPPORT AREA PROBABLE YEHICLE PARK 340441410 FIGURE 10. CHRONOLOGY OF VEHICLES NEAR DUAL HEN HOUSE A, SITE 13, SSATC. FIGURE 9. SOUTH SUPPORT AREA AT SITE 13, SSATC

TOP SECRET CHESS RUFF

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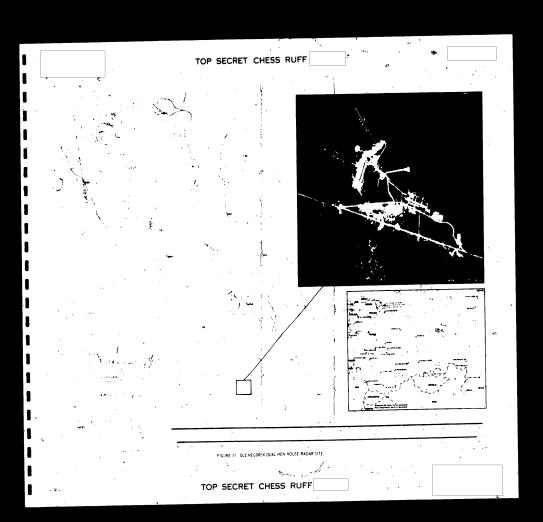
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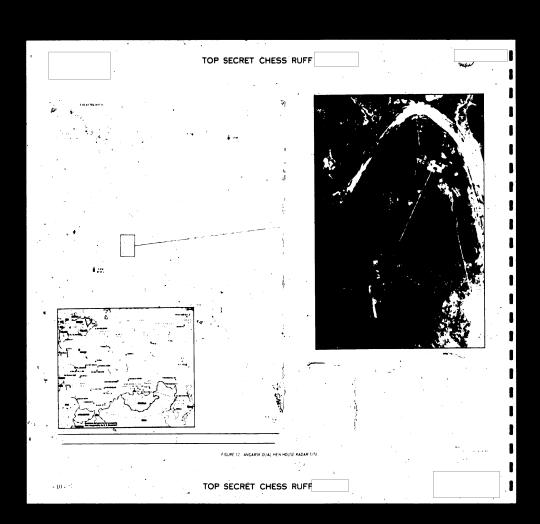
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t L		•	•
		through the area now occupied by the operations area, and	Photography evealed con-
1	and foundation excavations along the entire length of both antenna structures. At this time there was no evidence of	more specifically by the control building of Dual III N HOUSE	struction progressionalluminies, in the electric power sub-
•	construction or clearing activity for Dual HEN HOUSE	A. The latter is possibly coincidental.	station axea, footings for possibly Estephown, Opinise, low-
	Installations B, C, or D.	, , , , , , , , , , , , , , , , , , , ,	voltage transformers were under construction while will-
•	The progress of construction	Communications. The facility is served by a possibly	bearing construction on a 156+ by 36-foot substation control
	is documented by previously published reports. B. a	gravel-surfaced road which enters Support Areas (and 2)	house had reached the superstructure stage.
•	l'hotographic coverage kas accomplish-	from the south, thenturns to the southwas' toward the opera-	rtic substation control tiouse and
1	ed with the kH-7 system, resulting in relatively large-scale	tions area. There was no other problement acress to the-	an adjacent building measuring 78 by 48 feetswere rooted.
• .	photography (Figure 12). Though light conditions during the	facility From the site support area	om 2° April 1994 a probable stack of canvas-govered building material measuring 2 vbs 10 feet was located approximately
1	satellite pass over Angarsk were less than optimum, the	the road leads south to join a road which connects. Misheleyka on the west to Malta and Layturka on the cast. The latter two	200 feet northeast of the substation control house. This
•	larger photo scale has permitted a far more detailed analysis	communities are served by hard-surfaced roads and a	probable stack of material was not in evidence only August
•	than was previously possible. To provide for consistent annouslipps should additional facilities be constructed, the	double-tracked railroad which connects Irkutsk, Angarsk,	1964. Foundations for electric power transmission towers
•	area designation system used in previous reports is changed	and Cheremkhovo with points to the northwest and east. The	for 2 probable Hill-ky powerlines with heavy, 4-phase con-
•	to permit alphabetical designation of the Dual HEN HOUSE	fairfield possibly serving this site would be Belava Airfield,	ductors can be seen along the power trace extending north
•	installations and numerical designation of support areas, as	a medium bomber base, Bi So 0200-08008 doea/edapproxi-	frontitic substation. Photography revealed
1	shown in Figure 13. The sequence of designation will, where	mately 10 nm to the east. Note Liguro 12	continuing work on the powerline, with power transmission
•	possible, follow the chronological development of facilities.		tower footings newly identified northeast of the Belaya River.
1	General. The Angarsk Dual Ht.N HOUSE Radar Site	Defenses. Thegeneral area is defended by Cherenikhovo SAM site. B18-2, located approximately 6 nm southwest of	The power trace is thus being extended toward the electrified railroad near the town of Mikhaylovka (Figure 12).
• ,	occupies approximately 3,000 acres of flood plain in a bend	the Dual HEN HOUSE facility, by Cherenikhovo SAM Sie	A probable sewage treatment plant is being constructed
•	of the Belaya River (Figure 12). It consists of a fenced	C10-2, located approximately 12 nm north-northeast of	north of Support Area 3 and downstream from the water
•	operations area now containing 4 Dual HENHOUSE radar- installations under construction, with 3 closely grouped	Belaya Airfield, and the northwestern SAM Sites in the	intake point. It consists of 2 earth-embabked, 18-foot di-
1	support áreas about 1 nm to the northeast (Figure 13).	Irkutsk/Angarsk SAM defense complex.	ameler, probable digesters and a sewage treatment and
•	Photography of revealed a 2,130- by 200-foot	7	pumping station under construction.
1	area had been cleared for the fourth Dual HEN HOUSE	Utilities. Two parallel earth schrs, which enter the	the sewer pipeline from the sewage freatment
•	installation, (3)	area from the west, are possible efidence of power and	plant was extended to Support Area 2 and to the Belaya River.
1	the only cultural features visible at this site prior to	telephone lines serving the support areas during the early	Note Ligure 14.
•	commencement of construction activity were a few probable	construction period. Sometime	The water treatment plant, consisting foot single-story, flat-roofed building and two 45-foot di-
•	dwellings along the river and a series of straight earth scars.	jonstruction work began on an electric power substation in an area approximately 360 by 220 feet	amejer semiburied presedimentation basins, will be fed by a
•	These scars, consisting mostly of suspect survey lines, form a grid pattern in an area covered with medium to sparse	located between the operations area and Support Area 2.	buried water pipeline from the Bellya River. Photography
1	vegetation. The grid pattern is formed by parallel lines	During the same period, work began on a water treatment	Figure 14) reveals the circular basins
•	oriented north, youth, spaced approximately 1,000 meters	plant located between the power substittion and Support Area	have probably been covered. The intake end of the water
1	apart, and intersected by east/west oriented parallel lines	2. Concurrent with this activity, a trench was due for a pipe-	pipeline ends at a slip-off stope north of Support Area 2.
•	approximately 2,000 meters apart. Three straight, non-	line from the Belaya River to the whiter treatment plant.	h it suspected that infiltration galleries are being con-
1	parallel, unidentified earth scars cross the area southwest	During the period	structed at that point. I rom the water treatment plant, water pipeline trenches
[*항	of the site. These more prominent lines are generally	vegétation was cleared from a 110-foot-wide strip, forming a power trace leading southward toward the electric	lead along the access road toward the operations area and
	Toriented northeast 'southwest.' It is not possible to negate these earth scars, nor is	power substation from an area north of support Area 2. The	toward support Area 2. A number of trenches for water and
5	it possible to establish any relationship to the Dual HEX	power substation was still in very early stages of construc-	sewer pipelines can be seen in Support Area 2. Probable pipe
	HOUST facility, other than their geographic proximity and	tion, with no evidence of structures visible. Initial construc-	sections can be seen strung along the side of the access road
	the orientation of the grid with reference to true north.	tion on a probable sewage creatment plant was also initiated	between support Area 2 and support Area 3, probably pre-
	The northwestern of the 3 more prominent scars runs	during this period.	liminary to trench digging.
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	- n -	TOP SECRET CHESS RUFF	
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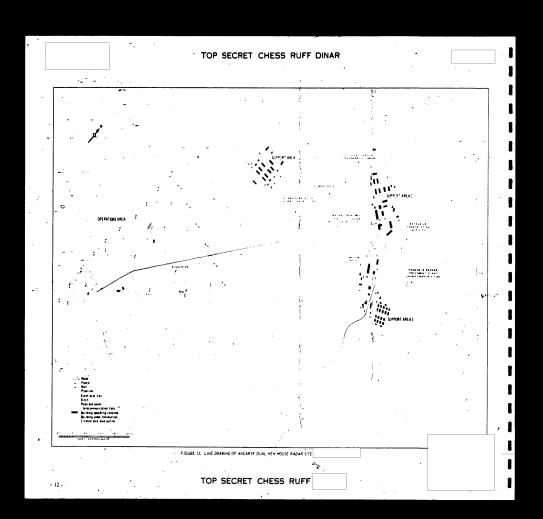
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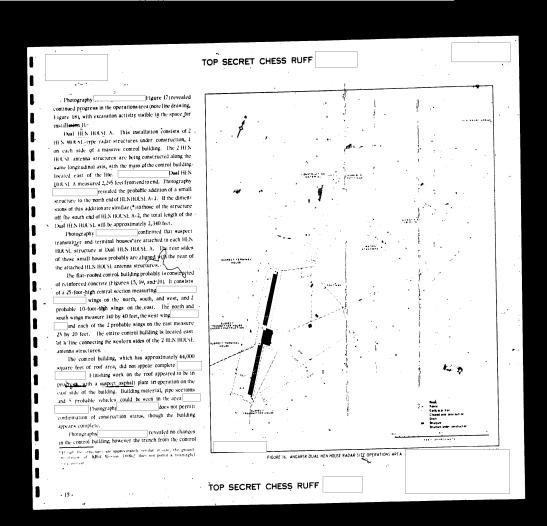
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Location of the struction is shown in Figure 21. Photography reveals that the rised probably has been covered and that a small structure (assign) terminal house; probably his leven added for the opto-fined of the III N HG N L. Photography — everaled that the front vertical section of H. Hix HG N L. Photography — everaled that the front vertical section of the antonia face on HI N HG N L. Photography — everaled that the front vertical section of the antonia face on HI N HG N L. Photography — everaled that the front vertical section of the antonia face on HI N HG N L. High probably is greater than the birresight angle of elevation of the antonia face on HI N HG N L. High probably is greater than the birresight angle of elevation of the antonia face on HI N HG N L. High probably is greater than the birresight angle of elevation of the antonia face on HI N HG N L. High probably is greater than the birresight and of elevation performed into Datal HE N HG N L. High probably is greater than the birresight and of elevation performed in Datal HE N HG N L. High probably is greater than the birresight and great of the probably continues at his installation. The total face of HL N HG N L. A. 2 (See Figure 18). This total difference indicated that construction with probably continues at this installation. The total face of HL N HG N L. A. 2 (See Figure 18). This total difference indicated that construction with probably continues at this installation. The total face of HL N HG N L. A. 2 (See Figure 18). This total difference indicated is made as the face at HI N HG N L. A. 2 (See Figure 18). This total difference indicated is made as the face at HI N HG N L. A. 2 (See Figure 18). This total difference indicated is made as the face at HI N HG N L. A. 2 (See Figure 18). This total difference indicated is made as the face at HI N HG N L. A. 2 (See Figure 18). This total difference indicated is made as the face at HI N HG N L. A. 2 (See Figure 18). The face as the face at HI N HG N L. A. 2 (See Figure 18). The face as the fa		214 2104		
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Photography Frequency Figure 17. Angask dual new house radars site. Showing construction process. Photography Frequency Frequ		****	· · · · · ·	
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boresight angle of elevision of the antenna face on HLN HRX-L. A-I probably is greater than the breesight angle of elevision at HLX-HQ/SLA-2. This correlates with the mensitration performed ion Dath HEX-HRX-LA at Xarys Shagan Site I. Note Higner 6. Three different stone-bit gray could be seen in the vertical wall below the face at HLX-HQ/SLA-2. The probably will be seen on the inclined face of HLX-HQ/SLA-2. The control postuling indicated it is real to a site of the control bording, indicated it is used be similar in size to waterina structure A-1 to the north. Dimensions and locations of forcing with red- errors to the control building are shown in the rettiff-1 line drawing in Figure 16. A-15 cot wall for a super- transcript respectively. FIGURE 17. ANGARSK DUAL HEN HOUSE RADAR SITE, SHOWING CONSTRUCTION PROGRESS. THE NATIONAL A-2. It probably will be similar to structures at HLX-HQSSLA-2. It probably will be similar to structures	111111111111111111111111111111111111111	3		front vertical section of HEN HOUSE A-1 probably
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Indicated it would be similar in size to antenna structure A-1 to the north. Dimensiols and locations of forting such reference, to the corner beliding are shown after restled. The drawing in Figure 14. A 45-foot wall for a suspect transporter house is Joeafed just off the south end of the footings at HEN INSTELLA 2. It probably will be similar to structures.	7.4.9.5			
to the north. Dimensions and locations of facing with ref- erence to the control bilding are shown inthe rectife. I in drawing in Figure 14. A SCA foot wall for a support trans- muter house is Jecard just off the south end of the feetings at 111 NAISCSLA-2, it probably will be similar to structures FIGURE 17. ANGARSK DUAL NEW HOUSE RADAR SITE, SHOWING CONSTRUCTION PROGRESS.	MA &			
erence to the control building are showninthe rectific 4 line drawing in Figure 17. A 45-foot wall for a suspect transmitter house is located just off the south end of the footings at 1H NATASTA 2. It probably will be similar to structurast	MAN AND AND AND AND AND AND AND AND AND A	yes and		
drawing in Figure 19. A 45-fock wall for a suspect trans- outer house is located just off the south end of the footings at HENTEST. A 2. It probably will be similar to structured			10	
Outter house is Jocated just off the south end of the footings Pigure 17, angaesk dual nen house radar site, showing construction progress. at 11 Nation 1. It probably will be similar to structured.	max 8			
PIGURE 17, ANGARSK DUIL HEN HOUSE RADAR SITE, SHOWING CONSTRUCTION PROGRESS. at 111 N TABLEST, A2, it probably will be similar to structures	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1	
FIGURE 17. ANGARS COLAL NEW HOUSE RADAR SITE, SHOWING CONSTRUCTION PRODUCESS.		4.42		
	FIGURE 17. ANGARSK DUAL HEN	HOUSE RADAR SITE, SHOWING CONSTRUCTION PRO	GRESS.	
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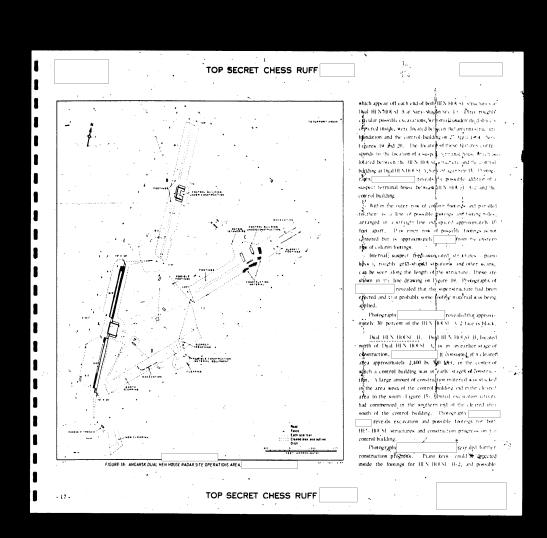
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		ę.
footings for "piano key channels" could be detected inside	section of its roof in place while a section, noticeably lower than the roof, protruded as shown in Figure	of the 3 Dual HEN HOUSE installations being constructed in the operations area.
footings for HEN HOUSE B-1. Possible footings for a suspect transmitter house off the southern end of B-2	22.	footings for the control building were in place and stacks
appeared in approximate alignment with the footings for	Figure 22 shows the appearance of the control building	of construction materials were being on the ground in the
the internal "piano key channel".	at B on	vicinity. Figure 15). The pattern formed by the control
. The control building at Dual HE'S HOU'SE B is oriented	Although photography does not resolve	building footings strongly suggests that the control build-
in, a manner similar to that of the Tual HEN HOUSE A	the small and narrow west wing, it reveals that super-	mg for Dual HI SHOESE C will have the same dimensions
control building, and probably will have a similar configura-	structure and roof on the north and south wing have been	And configuration as the control building at 1874 1918
tion. the walls of the west and south	erected and that construction on the large central section	BOUSE V. This was partially confirmed by
wings were being erected and a small portion of the roof	is progressing.	coverage, which revealed the superstructure of the marrow, probably 199- wing and the order 2
on the south wing was in place. west	areas for both HENHOUSE	wing being erected.
wing appeared to be divided internally by 2 walls. Note	structures at B were cleared and initial excavation activity was visible south of the control building construction.	The cleared area on each side of the control building
The extreme ends of the narrow west wing were	Photography reveals excavation and	construction is sufficiently large to accommodate 18 %
either covered by a 5-foot wide strip of roofing, or the	possible footings at both HEN HOUSE B sites.	iffOl SI-type rudar antenna structures, however, is of
walls at this point are 5 feet thick.		there was no Taign of excavation activity
the south wing of the control building	Dual HES HOUSE C. This installation is least advanced	in the cleared area. Photography re-
		realed that excavation for the III S HOUSE foundations
	4	had begun.
		Figure 22 reveals the appearance of the control building at Dual HENDOUSE C
ngiget IF		The distance between frontings for HENHOUSE C-1
-E-OMT 27		and C-2 and the location of possible footings for piano
1		fey channels at C-2, suggestiff that Dual III S HOUSE C
	[[]]]	probably will be more nearly stimilar to Dal HES HOUSE
	- 101	than it will be to Dual HES HOUSE A.
		Dual HEN HOUSE D. The approximately 2,200- by
ation to	HEN HOUSE A 1	100-foot clearing for probable Dual HIN HOUSE D is
		 located south of Dial HES HOUSE C and east of Dial
		fIEN HOUSE A. The long axis of this clearing is parallel
e the second		to the long axis of Dual HEN HOUSE C. The appearance
	• m· •.	If this clearing gives the entire operations area a double. Yor chevron configuration.
		Other Structures and Activity in the Operations Area.
- u		number? of friendations containing
ent. f. a	Tanaminana II.	footings for unidentified structures were located in the
S 100 6		approximate center of the operations area see innota-
	***	tions 6 through 9, Figure 15). A standpipe with a capacity
HEN HOUSE A 7	4	of approximately 153,000 U.S. gallons was seen just west
*		of the control house construction at Dial HEX HOUSE C.
100 400 100	·	however, there was no evidence of connecting pipelines
LEG Tobubints	D Con sette 4007 27 APR 64	Photography revealed earth scars
FIGURE 19. DUAL HEN HOUSE A, ANGARS	27 (8) 141	connecting the 2 confrol buildages at Dody-HES HOUSE B
and the second s		
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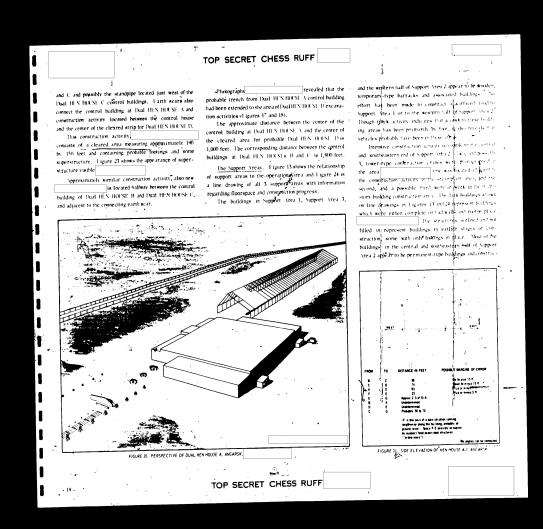
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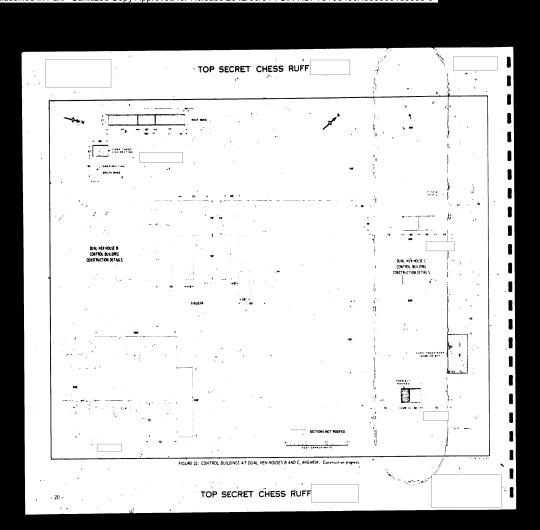
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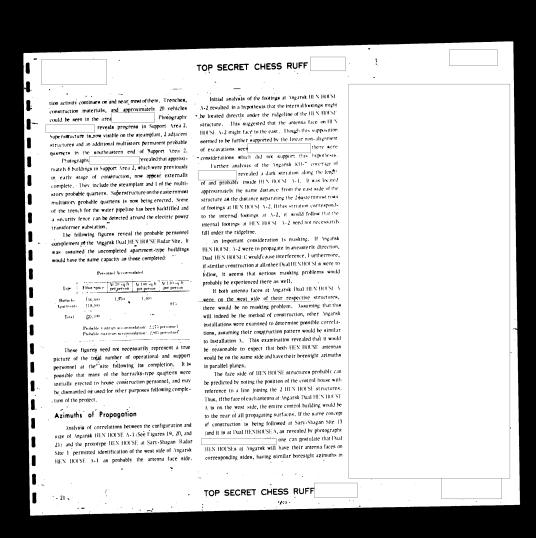


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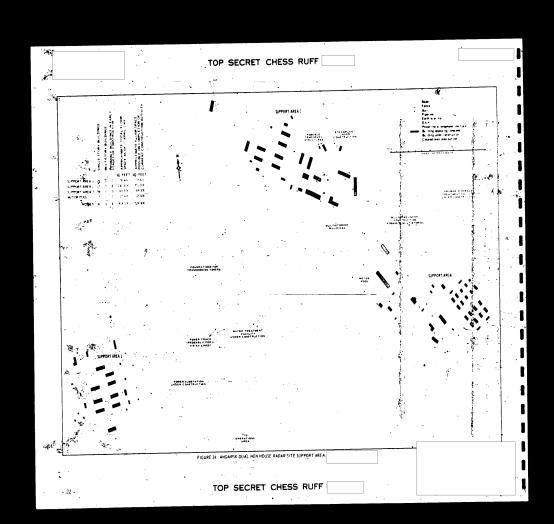
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	Dual HEN HOUSE Radar Site.	mounted internally a given distance behind each of the
ual HEN HOUSE installations, this map also shows the	(4) Olenegorsk HEN HOUSE A-2 is oriented to place	lens panels. The internal foreings and suspect internal
presight azimuth from the prototype HEN HOUSE at Sary-	its possible back azimuth through Sary-Shagan Site 13.	feed-associated structures (piano kess.) seen at the various HEN HOUSE's under construction must be studied carefully
hagan Radar Site 1 and the possible azimuth from the bacow DCG HOUSE possible phased-array radar, assuming		by antenna engineers (Sigure 27). Special care must be
hoscow DOG HOU'SE possible praised—arrive rapid, management both faces of the DOG HOU'SE will 'contain radar	If we hypothesize that the above probabilities are	by antenna engineers (tagate 2) taken to note the correlation between the size, spacing and
ntennas.	indeed fact, then one of the following conclusions could	minutes of the mano keys and the size and location of
Though these azimuths have been computed to an	be accepted as correct:	at a military to any all horizones on each end of the 19 N 18 " [1]
most of them are only propante	(1) The Soviets surveyed these installations accurately,	structures. Further correlation to boresight angles of
admirition until photographic or other evidence can confirm	to have the boresight azimuths line up as suggested in the	alor gron will be most important.
be location of each antennaface. Consequently, for research	previously stated probabilities and the azimuths computed	The appearance of this internal construction at the
ties of neographic coordinates along each	for Figure 26 have a slightly higher margin of error than	THE STREET STREET TO SHOW THE REPORT OF THE STREET STREET, THE STREE
remotivable azimuth from the HEN HOUSE structures	supposed. (2) The azimuths computed for Figure 26 are accurate	of suspect feed-associated structures which were recorded
e ettached as Lables 1 through 12, pages 31 to 35. These	ind the Soviets did not survey these In-	in front of the northern'IH N ROOKI antenna Surv-Stuff in
geographic coordinates have been computer-determined at	stallations accurately assuming an intent to have boresight	Radar Site Number 2: th 1/11/1/VI photography See Figure 28/28/1/Contains a photography is
regular intervals along each of the listed azimuths, for a	azimutha line up as suggested above).	impression of the piano key -type structure between the
distance of approximately 5,000 nm from the given in-	(3) The azimuths computed for Figure 26 are accurate	they project internal and the ground chatter screen injure
stallation.	the Soviets surveyed their installations	to be not powerfule to confirm whether these stantifies
Geographic coordinates along both boresight azimutha	accurately, and the proximity of boresight azimuths to the	will are located in front of the HIX PORK integral
from the DOG HOUSE, also have been computer-determined	listed installations is simply coincidental implying no inten-	however, some of the best and most recent kill-4 process pro-
and are included as Tables 14 and 15. The computer- produced coordinates were checked by solving reverse	tion to line up the boresight azimuths exactly with the given	THE REPORT has not yet been covered by large-scale kits
problems. Additional computer checks determined azi-	installations). (4) The azimuths compiled for Figure 26 are accurate	photography) reveals a faint light-toned struction in from
muths, given the previously computed coordinates.	the Soviets surveyed the installations	of the HEN ROXS1 antenna, suggesting the possibility that
A study of 1 igure 26 reveals that boresight azimuths	accurately, to have the boresight azimuths line up approxi-	some portion of these structures still remains (Ligure 29) LALENT photography of the HIN RIX KI was used to
A study of Figure 20 reveals that together and some back azimuths) go near or through certain related.	mately as suggested in the above stated probabilities (imply-	compute the angles shown in Figure 28. Distances were
to example, the boresight azimuth from	ing no intention to have pinpointed accuracy).	measured on current, good-quality KH-4 photography
the state of the s	Of the 4 possible conclusions listed, the first and	The size of the original panels at Sary-Shagan
Come Shagan and that from Sary-Shagan Dual HES TRACES.	the fourth appear to be the most reasonable.	prototype HES HOUSH was approximately 40 by 20 fee
Consequently, a second computer	the tourn appear	according to analysis of LALENI photography of tor
and the was initiated to determine the exact distances and	DISCUSSION	1960 Photography revealed that possible
azimutha between possibly related points. Table 16 shows	5.000000.	larger nanels were being installed digure 3), Bedaus
the result of this computer analysis.	Type of Radar	of the limitations imposed by relatively poor ground resolu
A study of these azimuths shows that there is a high	It is generally believed that the HENHOUSE structures	tion the dimensions shown must be considered approximation the dimensions shown must be detected between
degree of probability that:	house some type of phased-array radar. As the result of	only. The fact that a space can be detected between separate panels would at first suggest that the distan-
(B) Angarsk Dual HEN HOUSEs A and B are oriented	one hypothesis it is suspected that I of the small structures	harmon panels, must be between 10 and 20 feet, the propan
to place their probable boresight azimuth through Sary-	attached to the end of a DualHENHOUSE serves as a trans-	around resolution for this coverage. However
Charan Site 13	mitter house and the other as a terminal house. It is	transfer (considering) a probable panel length of 40 let
2: Sary-Shagan Dual BEN HOUSEs A and B are	possible that such an arrangement would be compatible with	would make it possible to detect a smaller separation
oriented to place their possible boresight azimuths through	a frequency-scanned phased-array radar. Another hypothesis concludes that the bulk of the	The sumprimal coefficient in this relationship is not snow
Tournam Missile Test Center.	HEN HOUSE expecture behind the face suggests the use of	Though the confidence in panel width measurements
(3) Sary-Shagan Dual HEN HOUSE C is oriented to	an array of lenses in the antenna face, with the feed elements	relatively low, it is nevertheless interesting to note t
place its possible boresight azimuth through the Angarak		

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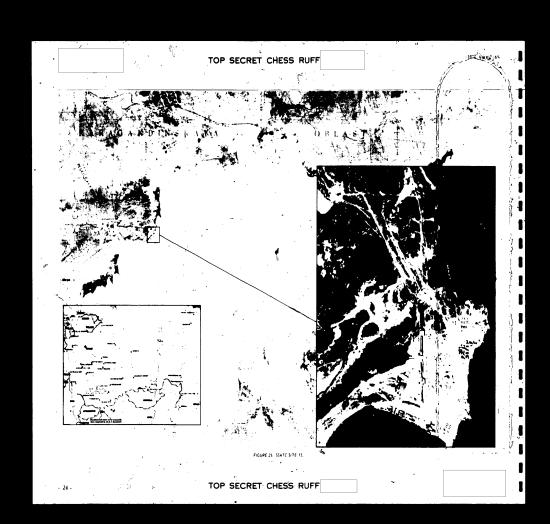
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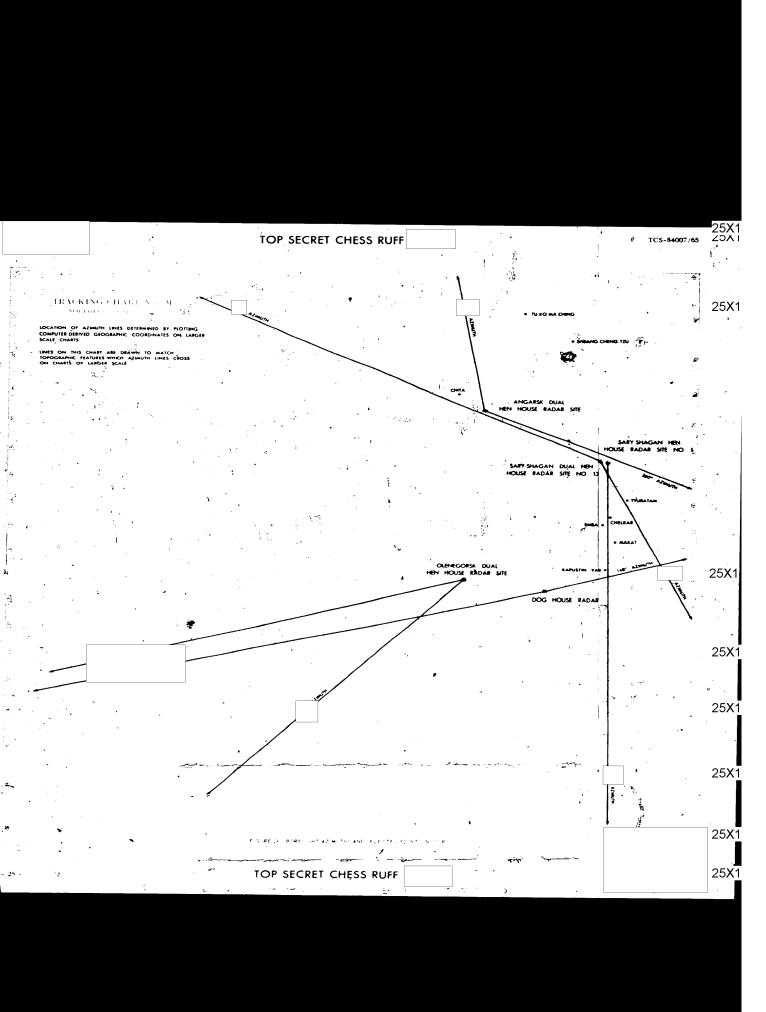
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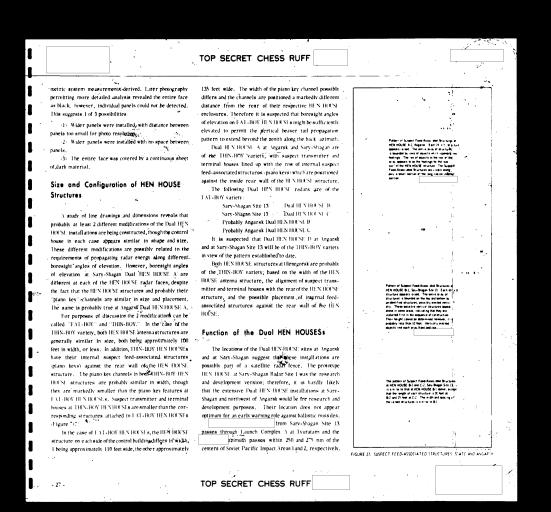
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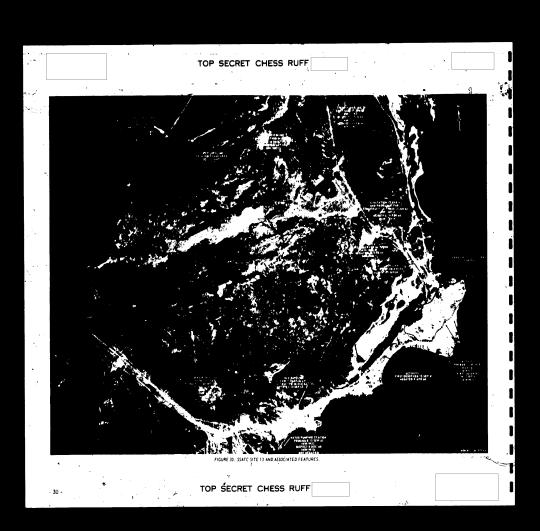
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they	of the large triad building in December 1963 and Lebruary	enacing and height which strongly suggest that 35kky power
ility to launch their strategic weapons before they		
e destroyed by a pre-emptive strike from the West.	1964 could no longer be detected	lines are serving these installations. The same is true
fore, a ballistic missile early warning system is	the state of the secure entit visible has its termini at	of transmission tower spacing for electric powerlines serv- ing Launch Complex B and Instrumentation Site 10. At the
he as a deserrent force. The vulnerability of the	maters couth of the large triad building and southeast of .	same time it should be recalled that 110-ky bowerlines
gorsk Dual HEN HOUSE radars to nuclear attack	Paral HEN HOUSE B control building. It is possible these	are being installed into the Angarsk Dual HeN HOUSE
not detract from their early warning effectiveness	earth sears are simply signatures of buried water, see and	Radar Site.
he political vain from establishment of an operational	or electric power times. They could, instead of functional interdependence. Enclosing the	100 AVIV
m for even a limited number of important targets	INVALUEN HOUSEs and the triad facility behind the same	
be great. It is therefore possible that the society	double security fence, in itself, does not prove functional	
m even though its operational effectiveness initially	interdependence; however, it is important evidence to	
	consider.	A THE STATE OF THE
· ·	Perhaps the most critical evidence regarding to	
stionship of the Dual HEN HOUSEs	HIS HOUSE at Sary-Shagan concerns chronology of electric	"是我们们就是"
I the Building Triad at Site 13,	powerline installations (Figure 30). Flectric power trans-	
	mission lines leading from the Balkhash area toward the	
·	Sary-Shagan Main Support Base and Gulshat were tapped	
A functional relationship between the building triad at	and towers for overhead electric power transmission lines	Market State
-Shagan Site 13 and the nearby Dual HENHOUSE in-	were installed in lines leading someward toward to	1. 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ations is probable, but cannot be confirmed.	a 35-ky line were first seen on 26 December and negated	1. 100 mm (1) 100 mm
The collocation of the building triad and the Nual HES	Transmission towers for a 110-ky	A STATE OF THE STA
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	atory it heir strategic military power is to be he as a deterrent force. The vulnerability of gorste Dual IIEN IICNSE radars to nuclear attack not detract from their early warning effectiveness he political gain from establishment of an operational m for even a limited number of important targets be great. It is Therefore possible that the Soviets Thereas forwards to the early realization of such a m, even though its operational effectiveness initially the rather limited. actionship of the Dual HEN HOUSEs is the Building Triad at Site 13, y-Shagan A functional relationship between the building triad at Shagan Site 13 and the nearby Dual IIEN IICN St. installations is probable, but cannot be confirmed. The collocation of the building triad and the Dual HEN St. installations is probably not coincidental. With the sarance of construction activity at-Dual IIEN IICN St. In-	ble as a deterrent force. The vulnerability of the gorsk Data HEN HOXSE radars to nuclear attack gorsk Data HEN HOXSE radars to nuclear attack mod detract from their early warning effectiveness he political gain from establishment of an operational mod retract from their early warning effectiveness and the process of the political gain from establishment of an operational mod for even a limited number of important targets by the great. It is therefore possible that the Soviets in press forwards to the early realization of such a trace of the process of forwards to the early realization of such a trace of the process of the process of the same discussions forwards to the early realization of such a trace of the process of the process of the trial detaility behind the same discussed of the process of the trial detaility behind the same discussed of the process of the trial detaility behind the same discussed of the process of the process of the process of the trial detaility behind the same discussed of the process of the trial detaility behind the same discussed of the process of the trial detaility behind the same discussed of the process of the trial detaility behind the same discussed of the process of the trial detaility behind the same discussed of the process of the trial detaility behind the same discussed of the process of the trial detaility behind the same discussed of the process of the trial trial detaility behind the same discussed of the trial detaility behind the same

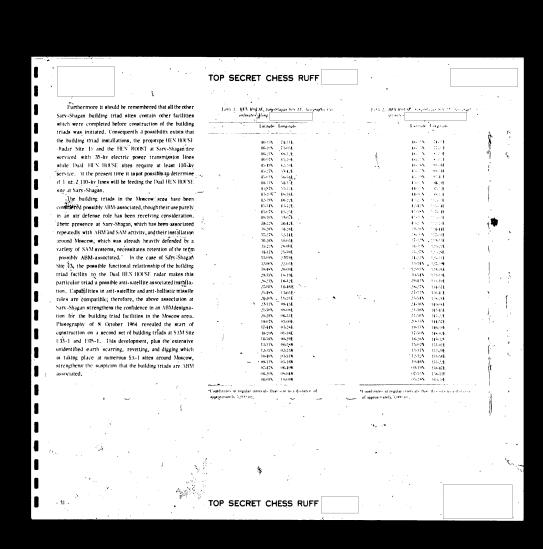
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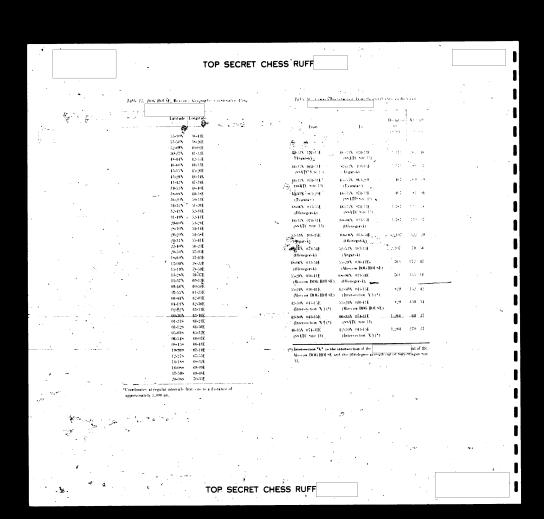
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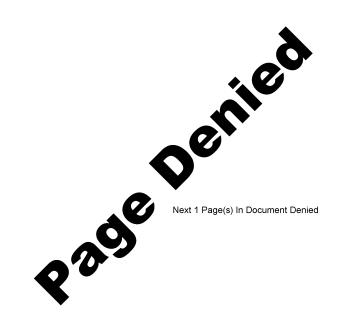
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